

Title (en)
TONE RECEIVER FOR A DIGITAL DATA TRANSMISSION SYSTEM

Publication
EP 0097753 B1 19861001 (FR)

Application
EP 82430016 A 19820625

Priority
EP 82430016 A 19820625

Abstract (en)
[origin: US4563681A] A device for detecting the presence of an alarm tone of a given frequency within a received signal carrying digital data in addition to said tone. The receiver comprises an analog-to-digital converter (42) the output of which is applied to a first recursive bandpass filter centered at the frequency of the alarm tone and the feedback loop of which includes a limiter. In addition, an input feedforward loop is provided for adding (at 58) the output signal from the converter (42), as multiplied by a coefficient gamma , to the output signal from the limiter. The output signal from the adder (58) is hard limited (at 44), then passed through a second bandpass filter. The energy of the signal obtained at the output of said second filter is then measured to provide indication of a tone's being received when said energy exceeds a predetermined threshold.

IPC 1-7
H04L 11/08; **H04Q 1/448**

IPC 8 full level
E04H 9/00 (2006.01); **H04L 12/26** (2006.01); **H04L 27/00** (2006.01); **H04L 29/00** (2006.01); **H04Q 1/448** (2006.01)

CPC (source: EP US)
H04L 43/00 (2013.01 - EP US); **H04Q 1/4485** (2013.01 - EP US)

Citation (examination)
COMMUTATION & ELECTRONIQUE, no. 59, octobre 1977, pages 99-115, Issy les Moulineaux (FR), H. CAMPAGNO et al.: "Système E10. L'équipement de tonalités et auxiliaires"

Designated contracting state (EPC)
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